

0420



ENTERED

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/060,066

DATE: 03/11/2002 02/22/2002^{8.5}
 TIME: 11:38:41

Input Set : N:\Crf3\02222002\J060066.raw
 Output Set: N:\CRF3\03112002\J060066.raw

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1 <110> APPLICANT: Abuin, Alejandro
2       Zambrowicz, Brian
3       Sands, Arthur T.
4 <120> TITLE OF INVENTION: NOVEL MUTATED MAMMALIAN CELLS AND
5       ANIMALS
6 <130> FILE REFERENCE: LEX-0304-USA
7 <140> CURRENT APPLICATION NUMBER: US/10/060,066
8 <141> CURRENT FILING DATE: 2002-01-29
9 <150> PRIOR APPLICATION NUMBER: US 60/265,574
10 <151> PRIOR FILING DATE: 2001-01-31
11 <160> NUMBER OF SEQ ID NOS: 248
12 <170> SOFTWARE: FastSEQ for Windows Version 4.0
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 297
16 <212> TYPE: DNA
17 <213> ORGANISM: Mus musculus
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20       aaatgctgta cgtgccotta aatcactctc taagaaatac cgcttagaag tgggaatcca 120
21       agctatggaa catcttatcc atgttttaca aacagatcgg tcttgagttc aaatcccagc 180
22       aaccacatgg tggcctcata accatccgta acgaaatctg atgccctctt ctggaatgtc 240
23       tgaagacagc tacagtgtaa ttatatatag taaataaata aatattttta aaaaatg 297
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26 <211> LENGTH: 656
27 <212> TYPE: DNA
28 <213> ORGANISM: Mus musculus
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <222> LOCATION: (1)...(656)
32 <223> OTHER INFORMATION: n = A,T,C or G
33 <400> SEQUENCE: 2
34       tatggcttca ctctgcacct tcgcctctgc agccacctgc tcgctgcccc cggccccctc 60
35       tggccccctg agggccccca gcttctgcct gtgctgtgat cccccagcc gccggcacgg 120
36       ccccgccctc gctgccccgg tgggtggcca cggccccccg gttgccagtg gtgaaactgg 180
37       agtcattgaa acgctggaat gaagagaggg gtttgtggtg tgaaaagggc gttcaggtag 240
38       tactgaccac catcgggccc ttgcggctt ttggcctcat gaccatcgcc atcagcactg 300
39       actactggct ctacacaaga gctctcatct gcaacaccac caacctcaca gcaggtagatg 360
40       acggaccacc ccacgtgggg ggcagtggtc cctccgagaa gaaggaccct gggggcctca 420
41       cacattcagg cctctggcgg atatgctgcc tgggaaggtag ggtgcaggaa ggccctggct 480
W--> 42       ggccacctcc gntgaagcct gtgcctncag caaatcgact tntagtgttc tgagtctcaa 540
W--> 43       cccaaggnet tgaggggtgt gctttactgc tggagggcgn tnattccatg caccctcca 600
W--> 44       tncctntnta caaatccctc ttctggggat tntngntgtt atttttattt tctttg 656
46 <210> SEQ ID NO: 3

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Input Set : N:\Crif3\02222002\J060066.raw

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47 <211> LENGTH: 651
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49 <213> ORGANISM: Mus musculus
50 <220> FEATURE:
51 <221> NAME/KEY: misc_feature
52 <222> LOCATION: (1)...(651)
53 <223> OTHER INFORMATION: n = A,T,C or G
54 <400> SEQUENCE: 3
55     cacaggtggg gctggtctaca tcggcagcca cacggtattg gagctgctgg gagcaggcta 60
56     ctgcctgtg gtcattgaca acttccataa cgccattcgt ggagaagact ccatgcctga 120
57     ggagcctgcg ccgggtccag gaattgacag gccgctctgt ggagtttgag gagatggaca 180
58     tcttgacca ggcagcocta cagcacctct ttaagaagca cagctttaag gccgtcatcc 240
59     actttgctgg cctcaaggct gtgggcgagt cagtgcagaa gcctctggac tactatagag 300
60     ttaacttaac agggaccatc cagcttctag agatcatgag ggcccacgga gtgaagagcc 360
61     tgggtgttcag cagctcagcc accgtgtacg ggaaccccca gtacctgect ctggatgagg 420
62     cccacccac ggggggctgt accaaccctc acggcaagtc caagttcttc atcgaggaga 480
63     tgatccggga cctgtgcogg gcagacacgg cctggaacgc cgtgctgctt cggtacttca 540
W--> 64     atcccatagg cgcccacgcc tctgggcgca tcggtgaaaa tntcanggt attnccaaca 600
65     acctcatgcc ctacgtctcc caggtggcaa tcgggcgaca agaggttcat t 651
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68 <211> LENGTH: 647
69 <212> TYPE: DNA
70 <213> ORGANISM: Mus musculus
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72     aatggaaact gaaaacccaa aaactatgga agaaagcact gagaagagaa aagaagaaaa 60
73     gaagaagcgc tcccgggtta aacaggtgct tgcagatatt gctaagcagg tggacttctg 120
74     gtttgagat gcaaaccctc acaaggacaa gtttctgcga gagcaaattg aaaagtctag 180
75     agatggatat gtggacattt ctctcctggt gtcttttaac aaaatgaaga agctgacaac 240
76     tgatgggaag ctaatagcca gagcattgaa aagctcatct gttgtagagt tggacttaga 300
77     agggaccaga atcaggagga aaaaaccctc aggtgagaga ccaaaggacg aggaggaacg 360
78     cacggtatat gtggagtgtc tccccaaaaa tgttactcat agctggattg agagagtatt 420
79     tgggaaatgt ggcaatgtgg ttacataag tattccacat tacaagtcta ctggggatcc 480
80     taagggattt gcctttgtgg aatttgaaac aaaagagcaa gcagcaaaag ccattgagtt 540
81     tctgaacaac ccaccagaag aagcacctag aaagcctggt atatttccca agacagtga 600
82     aaacaagccc atcccttcct tacaagcaga agagaagaaa aagaaaa 647
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 647
86 <212> TYPE: DNA
87 <213> ORGANISM: Mus musculus
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <222> LOCATION: (1)...(647)
91 <223> OTHER INFORMATION: n = A,T,C or G
92 <400> SEQUENCE: 5
W--> 93     agtggggtct ttcaacggcg gacgngggtt acccgcgagg tatgggatat ccagtatggc 60
W--> 94     acgagggagg aggtgtggtg gngtacnag nacgactact gctcgggctc ggtcatgtcg 120
95     gagcgtgtgt cgggcctggc gggctccatc taccgcgagt tcgagcgctt cattcactgc 180
W--> 96     tatgacgagg aggtggtcaa ggagctcatg ccgctggtgg tgaacgtgct ggagaaccnn 240
97     gactcggtgc tgagcgagaa ccaggagcac gaggtggagc tggagctcct acgcgaggac 300

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98      aacgagcagc tgctcacgca atacgagcgc gagaaggcgc tgcgcaaaca ggccgaggag 360
W--> 99      nnngngtgtgc cccggncgcc gcctngagnng acggngtggn tagangtgca gnacccagnt 420
W--> 100     cngetcanc ggnagtatnc tngtgatgct gatgccgang ctgctggnta tgtgccactt 480
W--> 101     tntccatcca atngagacct aaanacacagc ctgtgcaaag nccggnagac ntgngcccc 540
W--> 102     attcctgctg gnetctgacc ttggctgncg ccngctnnnt ctnggatntt attccttccc 600
W--> 103     gtcttnggag cagggtgcnc tagaatcaca aagcgccaga attctac      647
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 645
107 <212> TYPE: DNA
108 <213> ORGANISM: Mus musculus
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (1)...(645)
112 <223> OTHER INFORMATION: n = A,T,C or G
113 <400> SEQUENCE: 6
W--> 114     agtttggtggg cattgcccc nctaanatat ccacaccgn accccgannt agaagactca 60
115     gctgccaggc agaacactga agggaagcgc ctccaagtcg cttcagcctt taccctccgg 120
116     ttccaggaca ggagagctct ctgcagtggg cagggatgaa gtttgaggac gtoccaattg 180
117     cacacattaa agcaacctac aacaacacac agatccaggt agtctctgcc accaatgcgt 240
118     ccctggcccc cgcctctgtt ggcacagaag gctttcgcaa tgccaagaag ggcaccggca 300
119     tcgccgcaca gacagcaggc atagctgccg cagcaaaagc cacaggaaag ggagtgacct 360
120     acatcagagt cgtagtgaag ggcattgggc caggacgctg gtctgccatc aaaggactga 420
121     ccatgggggg tctggaagtg atctcaatca cagacaacac cccggtccca cacaatggct 480
122     gccgaccccc gaaggctcga aggctgtgac gggaaggagg cctgcacttg gacctggcct 540
123     caggctctga ctctgtgga tcctacagaa ggcccactgt ggaagccgct ggagccggct 600
W--> 124     gttctcgagc cctncttggg gaaacactcc ttttctcgca ccgag      645
126 <210> SEQ ID NO: 7
127 <211> LENGTH: 636
128 <212> TYPE: DNA
129 <213> ORGANISM: Mus musculus
130 <220> FEATURE:
131 <221> NAME/KEY: misc_feature
132 <222> LOCATION: (1)...(636)
133 <223> OTHER INFORMATION: n = A,T,C or G
134 <400> SEQUENCE: 7
W--> 135     acctgagtgc aaaacattnn aagaacactt tgagaagcac atattccagg aaacagaaa 60
136     ctgggtccaaa gccccggccc aaggatgtgt ttgacttttc taataattct gatgcctcaa 120
137     gcataccggg agcactcgag gaagaagagg agacttacga aaccttcgac cccctctctg 180
138     acagtacggc tatctacgca gaagacgagc tgtccaaaca ctgtgtgtcc tccagttccc 240
139     tggccaccca cagaggggaag gcgagcagaa acttggaacc ttctgaagat gaagcaagt 300
140     gaaatgagtc tatcaaggtc agcacaaaaa agccaaggag aaagctggag cccatcagcg 360
141     gcgagtcgga cagctctgca gatgatgtaa ggaggagggt ggcatctgca gaaggaccaa 420
142     ggtcacagca acgccaggct gctcctgcag caccgtcacc cctgagagg ccagccgagc 480
143     cggtcactcc caggaggaca agaactccaca gcgctcagct ctctcctgta gacgagacac 540
144     cagcaaccca aagtcagctg gtgagcagtg ctgcctccg ccctcgctcg ggagagaaga 600
W--> 145     gttcantaaa aagattaggg aggaataaag aggtct      636
147 <210> SEQ ID NO: 8
148 <211> LENGTH: 636
149 <212> TYPE: DNA

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150 <213> ORGANISM: Mus musculus
151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (1)...(636)
154 <223> OTHER INFORMATION: n = A,T,C or G
155 <400> SEQUENCE: 8
W--> 156      atccagtagc aggcgggacg ccgcnngcga gtgcgngga ggagcagctn cgggcaggcn 60
W--> 157      gagggaggag gaagaggcgn angnctgga gtacctggcc nanctgccgg tagccgntgc 120
W--> 158      tgctgcncgt gctggccnag ntgccagcta cggagctgnt gcaggcctgc cncctggtgt 180
W--> 159      gcctgcncctn gtaaggagct ggtggacngc gcccactgt ggctgntcaa gtgccagcag 240
W--> 160      gaggggctgg tgcgcgaggn cagcgtgat gaggagcggg accactggca acagtcttac 300
W--> 161      tttctgagca agangaggcg caacctgctg cgcaaccctt gtggggaaga ggacttgag 360
162      ggctggagcg acgtggagca cggtggggac ggctggaagg tggaggaact gcccgagac 420
W--> 163      aatggggngg aatttaccga anatgacagc gttaagaaat acttcgctc ctccttcgag 480
164      tgggtgcgca aagcgcaggt cattgatctg caggcagagg gctactggga ggagctactg 540
W--> 165      gacaccaccc agcccgccat cgtggtgaag gactggtact cgggtcgcac ggntgcggnc 600
W--> 166      agcctgtatg agctcactgn gaggtgctg tcgtga 636
168 <210> SEQ ID NO: 9
169 <211> LENGTH: 635
170 <212> TYPE: DNA
171 <213> ORGANISM: Mus musculus
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (1)...(635)
175 <223> OTHER INFORMATION: n = A,T,C or G
176 <400> SEQUENCE: 9
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178      cagggctgta tcgtctgccc tgtggggggg ccctaggacc taggccccac tggtgggggc 120
179      catgtaggag ttgcttggcc caaagtgttc atcaagacca gcctggaaga ggctcagt 180
180      aagatgacat tcgcagggca cgggagggcc ggctcaggaa ggcaccccg cccagctga 240
181      gtgatcgctc tcgtgaacgc aagtgctctg cctcccgcat cagtcgcttg gccagctttg 300
182      gggggctggc tgtgggcttg ggctgggag cgctggctga ggtgactaag aagtccttgc 360
183      caggtggaag tctgcagcat gagggcgtct ctggattggg ctccagtcct ttcctctccg 420
W--> 184      aggccaatgc tgagaggatc gngcagacct tatgtacagt ccggggggct gccctcaaga 480
185      tcggccaaat gctcagtatc caggacaaca gctttatcag ccccagctt cagcgaatct 540
W--> 186      ttganagggt ccgacagagt gccgacttta tgccccgctg gcaaattgat agagttctag 600
W--> 187      aaaagggagc tnggcaagga ctggcaaaga caagg 635
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 634
191 <212> TYPE: DNA
192 <213> ORGANISM: Mus musculus
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (1)...(634)
196 <223> OTHER INFORMATION: n = A,T,C or G
197 <400> SEQUENCE: 10
W--> 198      tgagtgccca tgggctaccc ctcaaanaca gtatcctggt cctgaccgag gtgatgagt 60
W--> 199      aggagctggc taaagagctg cagttggaag aagaagcggc tgctttccct gaagttgtgn 120
W--> 200      acgtnacaca gcacacagct cttgctgnaa cccatnttna cngtctgact gnnagactgn 180

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W--> 201      attatacnth nacaaaaggg cncactcagn catgctnang aacannnttan gcgtgaggna 240
W--> 202      aagaagtttc ancnnggtgat agcaaagttt ccatttcggtt tgaaaactat cgcaaagttc 300
W--> 203      atccctttga agacagtgac agctctgaag acnaggttga ctggcaggac actcgagacg 360
204      atccctacag accagcaaag ccaattccta ctcccaaaaa gggttttatt ggaaaaggaa 420
205      aagacatcac caccaagcat gatgaagtag tatgtggaag aaagaacaca ccaagaatgg 480
W--> 206      aaaattttgc ccttggcctt cangtagggg atggaattgg aatggatttg aaactatcca 540
W--> 207      accacgtttt taatgcctta aaacaacacg cctactcaga agagcgctcg agcgcccgtt 600
W--> 208      tncacgagaa gaaggaacat tctaccgcgt gaaa 634
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211 <211> LENGTH: 634
212 <212> TYPE: DNA
213 <213> ORGANISM: Mus musculus
214 <220> FEATURE:
215 <221> NAME/KEY: misc_feature
216 <222> LOCATION: (1)...(634)
217 <223> OTHER INFORMATION: n = A,T,C or G
218 <400> SEQUENCE: 11
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220      aaggggcggg cgctgtgcaa ttcattgatga ccaataaatt ggacacagca atgtggcttt 120
221      ctgcctgtt cacagtttat tgctccgctc tgctcgttct gcctcttctt gggttgcatg 180
222      aagcagcgag cttttaccag cgtgctttgc tggccaatgc tctgaccagc gctctgaggc 240
223      tgcattcagag attacctcac ttcagattga gcagagtgtt cctggctcag gccttgtag 300
224      aggacagctg cactacctg ctgtattcac tcatcttcgt caactcctac cctgtcacia 360
225      tgagtatttt tccagtcttg ctattttctt tgctccatgc tgccacatac actaagaagg 420
226      tcctggacgc aaagggttca aatagtttac ctctgttgag atcattcttg gataaattaa 480
W--> 227      gtactaacca acaaaatatt ctgaaattca tcgcttgtaa tgaaanattc ttgatgcctg 540
W--> 228      ctacaggtnt tatgtctctt agnggccaaag gaagnttgct ncancctttt ttatattatn 600
W--> 229      gantttctac tcttcnatat tctctagaa aaaa 634
231 <210> SEQ ID NO: 12
232 <211> LENGTH: 633
233 <212> TYPE: DNA
234 <213> ORGANISM: Mus musculus
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <222> LOCATION: (1)...(633)
238 <223> OTHER INFORMATION: n = A,T,C or G
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241      ccttttgcga ctttttattc tattttattt ttctgctgat gatgggctta aagatgctgt 120
242      ggccaaacgc agcatccttt ggacctcctt ttggacttga cctccttcca gaacttcac 180
243      cactaaatgc gcattcgagg aacaaagctg acttccaaag gaggataga atcaacatgg 240
244      aaacaaacac caaggtctta aaaggcgtg gcatgactgt gctgccagcc aaagcctctg 300
245      aggtgaacct ggaagaacta cctcctctga attacttttt acatgcattt tattacagtt 360
246      ggtatggaaa tccacagttt gatggtaa atatacactg gaatcatccg gtcttggaac 420
247      actgggaccc tcggatagcc aagaactatc cacaaggaca acatagtcct ccagacgaca 480
248      ttggctccag tttttatcct gagttaggaa gttacagctc tcgagaccct tctgtcatag 540
249      aaactcacat gaaacaaatg cgtcagcct caattgggtg ggaattattt tattttattt 600
W--> 250      atttatgngt atataaataa ttctggtgga caa 633
252 <210> SEQ ID NO: 13

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence listing.

VERIFICATION SUMMARY

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Input Set : N:\Crf3\02222002\J060066.raw

Output Set: N:\CRF3\03112002\J060066.raw

L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:64 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
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L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

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Output Set: N:\CRF3\03112002\J060066.raw

L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14